### **AUTOMOTIVE** SECTION

## WAR DEPARTMENT NOT TO SELL CARS

and Fiat to the American Liberty, in-

nounced size of 183 cubic inches.

Underlying Motive.

underlying motive and purpose of

"There are probably more cars ap-

"It is not likely that cars of this

size will be able to attain the extreme

haps a year or two; it will take that

speeds of their predecessors for per-

have rendered a signal service to

RURAL MOTOR EXPRESS

The national motor truck commit-

Chamber of Commerce, has issued a

for individual carriers and small

TELL HOW TO ORGANIZE

proximating in engine size the new

183 cubic inch specifications of the

"Here is written, in language so

**AUTOMOTIVE** SECTION

In the selection of bearings for his car or truck, the manufacturer shafts to drop out of true alignment takes into consideration two things: and throws gears out of perfect cost and performances, according to mesh. Loss of power and excessive fer of the entire present surplus of of Aces," and one of the word's pre- any other factory. A. K. Hebnerd, general manager, wear on the teeth of the gears in-Bearings Service company, Detroit, evitably follows the use of inferior With bearings, more than with any bearings at these points. other parts of his product, the manufacturer is more inclined to place hubs, where the bearings have to performance before cost.

ably be looked for, however, in the also subject to the shocks and vibralow-cost car that can be expected tion incident to travel over rough in the costly car. Generally you roads. can test out some of the bearings of a car simply by pushing it. It will be found that a high priced will soon show the evil effects of car, even when much heavier, can carelessness on the part of the mesometimes be moved more easily than chanic or motorist, as will the transa lighter, low-cost car, due to its

There are three classes of instaland so on, but these can not be considered, because at these points bear- results.

"Duo" Cord Guaranteed

6,000 Miles

"Xtra-Pil" Fabric

and initial cost and convenience of installation become the determining

The second class includes the transmission, pinion shaft, or worm, and differentials, where the extremeimportant shafts and gears deliver power to the wheels, are supported by antifriction bearings. Even slight wear in the bearings at these points - unless corrected - allows The third class includes the wheel

work under the tremendous pres-The same quality cannot reason- sure of the car's weight and are

Bearings not it the wheel hubs, pinion and worm mission and differential bearings, although to a less extent. These evil effects will not be apparent only in lations. The first includes bearings the bearings themselves, but will on the fan shaft, the clutch and the also show in the performance of starting motor, the steering gear, gears, the accurate adjustment of which may be destroyed with ruinous

Guaranteed

7,500 Miles

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North Capitol Tire Shop, J. J. Allen, Prop., 1518 North Capitol St.

The Gilbert Garage, R. L. Gilbert, Prop., 2007 18th St. N. W.

The transfer disposed of approximately 39,100 vehicles,

found to be unserviceable for Gov- consider that a contest such as an In- prior to 1911, and progressing as well as they have, when we conernment use. These, and such others dianapolis 500-mis race tests every as may later be culled out for similar part of a motor ca's mechanism more cause in the course of the inspection, severely than two years of ordinary transfer to the other governmental racing has specked up engineering agencies, will be sold at public auc- progress. tion at the various camps and storage yards at which they have been race accident bu one was due to de- clear that none can mistake it, the collected, after the sales have been fective wheels, wheels that apparduly advertised through the press. that the War Department would of revealed themelves in their true a constant stimulus to engineers and fer to the public a large stock of light. The same wheels would have manufacturers to develop new prinmotor equipment, including new pas- given good service under ordinary ciples, to increase efficiency, to make senger automobiles, have been wide- touring conditions for one or two one ounce of fuel do what two did ly circulated. It was never the in- years, perhap, and then suddenly before, to conserve natural energy tention of the War Department, in crashed, to the wiping out possibly of and advance human progress. view of above mentioned acts of an entire famly, as has often hap-Congress, to so dispose of its motor pened in tourng accidents. vehicles. It has consistently followvehicles as promptly as they were manufacturers to improve their pany than all the other sizes of cars declared surplus, to the Postoffice Department, the Department of Agri- those who reduced fatalities during sport of automobile racing will conculture, the Public Health Service, or by sale to other Governmental open road. Who shall say then, in as the result of the new policy, even agencies requiring such equipment.

### RUBBER FACTORIES' WAR VETERANS IN BIG PARADE

Department has approved the trans- E. V. Rickenbacker, America "Ace owe its existence more to racing than portant to the motor than to the the army in the United States to the speed sport for the real of the to the recent days of war, what do else besides riding comfort—they other Government departments.

proved July 2, 1918, and in February 28, 1919, and act approved March 3, 1919, outhorizing the Secretary of the says Captain Rickenbackf, "that Treasury to provide hospital facilities note the adverse sentimen current in for dischared soldiers, sailors, and some sections against automobile marines. By the appropriation act of racing, as the result of se three fa-July 2, 1918, authorization was given talities that happened dring the Infor the transfer of surplus motor dianapolis 500-mile Librty Sweepequipment to the Postoffice Depart- stakes race at Indianaplis, at which ment, and the act of February 28, I officiated as referee. The death of 1919, embraced similar authorization any man is a sad thin, with many for the transfer of any part of this pathetic consequences lits wake, and surplus stock to the Department of if it served no other prose than to Agriculture. By the act of March 3, make a Roman holids, as has been 1919, the Secretary of War was di- charged, with reference to automoequipment to the Public Health Ser- excusable,

including 3,600 motorcycles, 5,500 passenger cars and about 30,000 trucks. The ice I was identified with automobile Postoffice Department will receive racing for a good sany years, and

The Chamber of Commerce Akron, Ohio, is completing plans for atus would break, leaving him help- ciency, the minute there is nothing holding a mammoth parade on the less at the wheel of an uncontrollable further to be learned concerning their Fourth of July to honor the soldiers car, and great has been the wonder improvement, the master minds of that this delicate contrivance rarely the racing sport can be depended on Each of the big rubber factories of the city will be represented by its fact the perfection of steering til the ultimate point of engineering ex-service men. The Goodyear Tire mechanism is one of the chief condevelopment in the field of automoand Rubber Company now has 5,500 tributions of automobile racing to the tive industry has been reached. This men in its employ who saw service safety of motoring. Designs that is the real aim of automobile racing. with our army and navy forces, all were thought good engineering prac- The spectacle is but a means for of whom will march as a unit in the tice were quickly shown to be most arousing public interest in what has 

# Auto Racing, With Death Toll, Cheapest Road To Progress, Says 'High Ace'

INDIANAPOLIS, June 21-Capt as regards gasolene and tires, will serviceable motor equipment held by mier racing drivers before heforsook sky, contradicts the opinion recently you suppose would have been the advanced in some quarters, sat auto- position of allied aircraft manufac-This action is in accordance with mobile racing serves no usful pur-Congressional policy as outlined in pose, and that, consequently it ought ing? Every engine that went into and bad roads that lifts the wheels the Postoffice appropriation acts ap- to be abolished, to avoid he recurrence of such events as rarred the Sunbeam through the Hispano-Suiza down with a smashing crash.

Liberty Sweepstakes race, lay 31. "It is with a good deal of regret, rected to transfer surplus motor bile racing, it would, indeed, be in-

entering the United States air serv- actual competition. Because of their special design or in the developmentof automobile de- Every other year, since the Indi- but sidewise and up and down. in the surplus stock has already been mobile and the arplane. Stop and size, starting with unlimited sizes stood this hammering day after day which will be made incident to the usage, and you wil get an idea of how 1916 and 1919, to the newly an-

"In the last iberty Sweepstakes ently were sound, but under the cru-Erroneous reports to the effect cial strain of sustained high speed automobile racing—the application of

"The disgoveries of the last Ind the policy of transferring all such dianapolis rice will enable wheel In product so liat occurrences, such as put together, and the utility of the the contest will be impossible in the sequently be increased many times view of this fact, that the Liberty more than was the case with previous Sweepstaks race did not serve a engine reductions. useful purpose?

Perketion of Mechanism.

"Any one who drives an automobile has often reflected upon what long to perfect them. As soon as would happen if his steering appar- they reach the limit of their effidangerous when subjected to the test been accomplished, and not an end of extreme speed, and consequently in itself. If I can do anything to discarded before they had opportun- clear up any existing impression to ity to work mischief in the field of the contrary, I shall consider that I

"The same thing applies to all oth- human progress and to civilization." er parts of an automobile with respect to safety. Frames, axles, wheel spindles, bearings, tires, the proper design and materials for these were arrived at much more quickly through racing and with much less loss of life than would have been possible had automotive progress not had the tee of the National Automobile

"Also don't forget that racing calls booklet giving information on the into play the keenest engineering proper method of organizing a rural minds in a constant struggle to pro- motor express line. The booklet calls duce more horsepower, more energy, attention to the services which can with less weight-an endless reach- be rendered by rural motor express ing jut into new fields for the pur- lines and it tells how the scale of pose of increasing efficiency and charges must be determined and economy in gasolene consumption. To what details should be noted in makincrease engine efficiency new types ing a preliminary survey of the route of ralve action have been invented, over which trucks are to travel. It different cylinder arrangements have tells how the canvass of prospective been tried, all kinds of manifolds customers can be carried out; how built, every piece gone over with a the owner can boost his business by view to possible improvement, while an advertising campaign. It also the endeavor to reduce weight has gives vital suggestions concerning proved a stimulus to the metallurgi- operating methods and how to deal cal arts, resulting in the invention of with farmers. steels of unheard of lightness, com- The booklet is written especially bined with surpassing strength. "The new lightweight car of the operators, and contains a great deal twture, combining comfort and room- of information which the prospective

"And looking back for a moment the springs must afford something and bouncing over them and jarring the two Goodyear plantations matched must protect the power plant from the continuous bouncing over ruts an allied airplane, from the English from the ground and brings them

The locomotive does not have to corporated principles developed in the run over these roads. It has a solid, several subsidiaries of the Goodyear after roll of film. field of automobile racing, and which, without racing, could not have been developed in time to be of service travel. Yet, even with its truck True, we are not supposed to have springs, driving springs and equalwars any more, but as long as the izing beams, the locomotive does not possibility is present, it will not do last so long as the motor car. Imto ignore automobile racing as a fac- agine how long the locomotive would tor in determining the safety of the stand up traveling through deep sand, rough and rutty roads and "Summing up the case of automo- gravel turnpikes that are full of hidbile racing, I would say that it is den boulders. Still this is precisely indispensable to modern progress, at the kind of roads that the motor car least as far as events like the Indi- must go through day after day. anapolis races and the French grand Now, the law of mechanics, from

prix contests are concerned, where which the basis of all locomotion is the new ideas and theories of the figured, teaches us that it is a diffimost prominent builders of both the cult thing to keep a high-speed mo-"Now, it so happens that prior to new and old continents are tested in tor running on a solid foundationa still more difficult thing to keep it "For next year, the Indianapolis running right on a foundation movspeedway management has announced ing in one direction on a level path-10,064 of these vehicles; the Public consequently am more familiar than that its contest will be for cars of and a vastly more difficult proposi-Health Service, 1,396, and the Bureau is the average indvidual with the 183 cubic inches piston displacement, tion to keep a motor running on litof Public Roads, Department of useful, and I may sy right now in- coinciding with recently formulated the or no foundation at all, and condispensable, role plyed by the sport plans for the French grand prix. tinually moving not only forward, condition, a very limited number of sign, engineering, and metallurgical anapolis races were begun, there has It is really a mystery of the age passenger cars and trucks included discovery, as applid both to the auto- been a marked reduction in engine that the motor car power plants have

through 600 cubic inches for 1911 and sider that the engine must resist this 1912, 450 cubic inches for 1913 and wrenching, the bearings must absorb 1914, and 300 cubic inches for 1915, these shocks without cramping, and the bolts and nuts must endure these

The American automotive engineers have given a great deal of thought and study to the springs as a pro-

sontal and in this way prevent exces- where in America.

As a result of this method of placing springs, the car slips over the Ariz, is the only field meet held in the Springs are a great deal more im- ruts and rough roads, and the springs State. The big one just promoted cushion the up and down motion, in- there was one of the most successful giant locomotive. In the motor car stead of meeting these ruts head-on ever held in the West. Athletes from

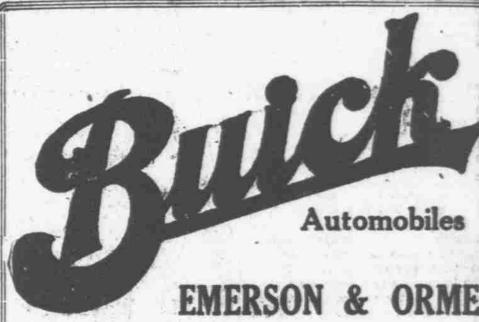
### GOODYEAR EMPLOYES IN

tablished institution at each of the from the coast cranked away roll

tector to the power plant, and the Tire and Rubber Company is an an-Paige engineers, alert to every engi- nual field day for employes. At the neering practice that makes for main plant at Akron, Ohio, the cotton longer life in motor cars, have after mills at Goodyear, Conn., and the many rigid tests, adopted the canti- cotton plantations at Phoenix, Aria, lever type springs and carefully pro- are held some of the most unique portioned them to keep them hori- field and track meets staged any-

The annual affair held at Phoenix, their abilities in the keenest rivalry

Among the events not usually found in field sports in the East was a bucking broncho contest, in which real Western broncho busters contended for supremacy, furnishing many "thrillers" for the vast crowd in PHOENIX, Ariz., June 28 .- An 'es- attendance, while moving picture men



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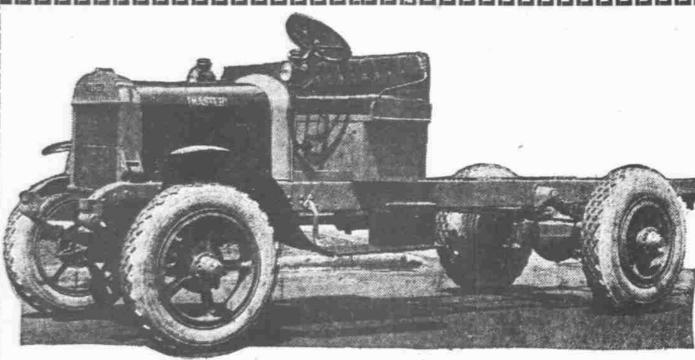
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